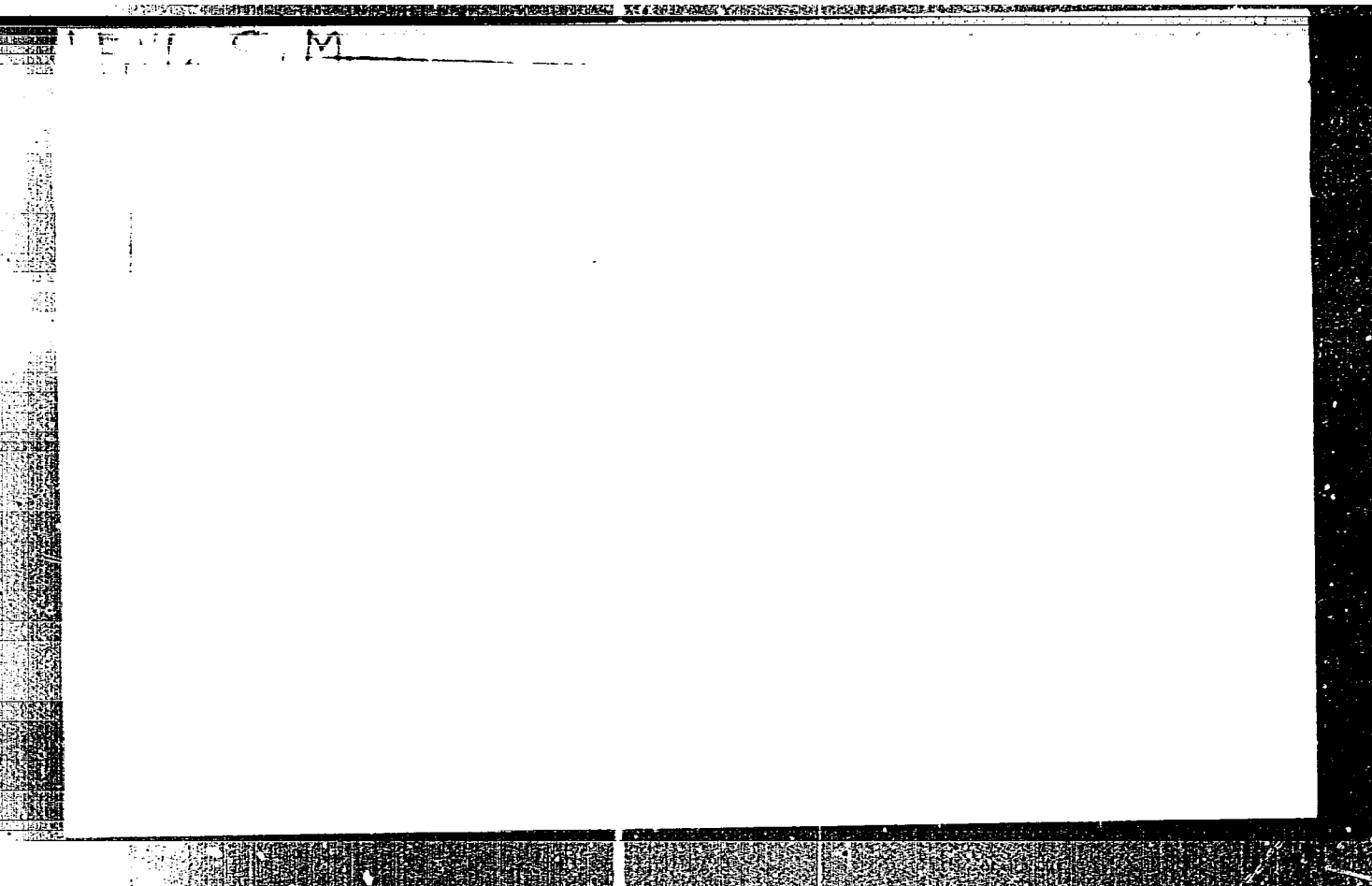


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LEVI, S. M.

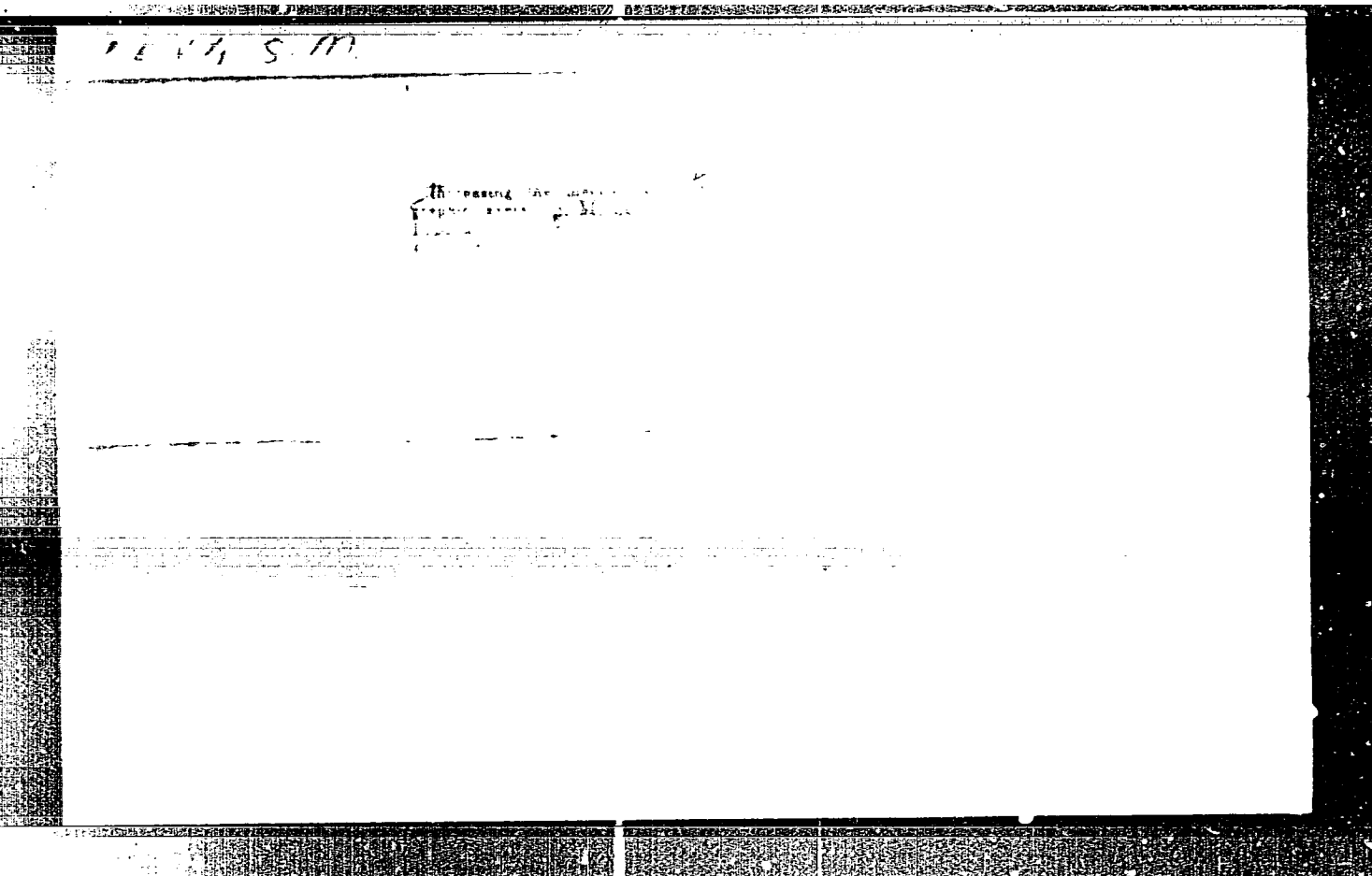
✓ Polydiacrylate of alkyl succinic acid

LEVI, S. M.

20
5
Photosensitive emulsion layers S. M. Levi, O. K.
Smirnov, K. G. Afirach, and M. M. Kasidkin USSR
105727, June 25, 1957 Water-soluble hydroxymethylamino
amine ethers of mono- or diisocyanate are incorporated into a
photosensitive emulsion in order to combine the tanning
and plasticizing effects. M. Hoch

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CIA-RDP86-00513R000929510014-0



APPROVED FOR RELEASE: 08/23/2000

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120. S. M.

Distr: 4E4J

/ Surface active substances
 and A. I. M. (USSR) 108 134 (1)
 An alkyl phosphoric acid derivative is heated with
 of 40% containing 2.5% ester is heated with
 and of glycerol at 220° in the presence of 1 mole
 of KOH until the pendant amount of H₂O is removed.
 resulting acid esters are neutralized. About 1 mole of
 glycerol is used per mole of I. The reaction is carried
 out by use of 8 moles of glycerol per mole of I. In phosphoric
 acid anhydride, another mole of I being added to the
 resulting acid ester, and the whole being heated for 1 hr
 at 150-70° after which the resulting diether is neutralized
 M. H. H. //

LEVI, S.M.

Influence of the proportion of silver halide in the gelatin of
a photographic emulsion on its plastic and viscous properties.
Zhur.nauch.i prikl.fot.i kin. 2 no.2:106:109 Mr-Ap '57.
(MLRA 10:5)

1.Vsesoyuznyy nauchno-issledovatel'skiy kino-fotoinstitut.
(Photographic emulsions)

Levi, S. M.

NY: * * * * *
Date: The date of the interview was
* * *

SMIRNOV, O.K.; LEVI, S.M.; RYBNIKOVA, A.I.

The action of moisteners against "comets" in the coating of photographic emulsions. Part 1: The action of some derived alkenyl succinic acids against "comets." Zhur.nauch. i prikl. fot. i kin. 3 no.1:34-38 Ja-F '58. (MIRA 11:2)

1.Nauchno-issledovatel'skiy institut organicheskikh poluproduktov i krasiteley im. K. Ye. Voroshilova i Vsesoyuznyy nauchno-issledovatel'skiy kino-fotoinstitut.

(Photographic emulsions)

ZELIKMAN, V.K., kand.tekhn.nauk; LEVI, S.M., kand.tekhn.nauk;
MOSKOVSKIY, Yu.Sh., kand.khim.nauk

Successful preparation of silver halide photographic emulsion
layers. Khim.nauk i prom. 3 no.5:567-576 '58. (MIRA 11:11)
(Photographic emulsions) (Silver halide)

SOV/77-3-6-4/15

AUTHORS: Smirnov, O.K., Levi, S.M., Rybnikova, A.I., Kochneva, S.N.

TITLE: The Antistreak Effect of Wetting Agents in the Casting of Photographic Emulsions (Antikometnoye deystviye smachivateley pri polive fotograficheskikh emul'siy)
II. The Antistreak Effect of Certain Industrial Alkyl Phosphine Acids (Antikometnoye deystviye nekotorykh proizvodnykh alkilfosfinovykh kislot)

PERIODICAL: Zhurnal nauchnoy i prikladnoy fotografii i kinematografii, 1958, Vol 3, Nr 6, pp 416-418 (USSR)

ABSTRACT: The authors continue their investigation of the mechanism of the antistreak effect of surface-active substances during the casting of a photographic emulsion. A relation between the structure of certain commercial alkenyl succinic acids and their antistreak effect was established. The present article investigates dinatrium salts, mononatrium salts, monoglycerides and polyglycerides of alkyl phosphine acids. Results, with respect to the structure of the R radicals, antistreak effect, surface pressure of a 3% gelatin solution, and the critical speed of the wetting effect in cm/sec are discussed and tabulated (Table 1).

Card 1/2

SOV/77-3-6-4/15

The Antistreak Effect of Wetting Agents in the Casting of Photographic Emulsions.

II. The Antistreak Effect of Certain Industrial Alkyl Phosphine Acids.

The anti-streak properties of wetting agents of derivatives of alkyl phosphine acids confirm the conclusions drawn with respect to experimental results with derivatives of alkenyl succinic acids. The antistreak properties of the wetting agents are determined by their structure. A systematic interrelation between antistreak properties, surface pressure and kinetic wetting could not be established.

There is 1 table and 9 references, 7 of which are Soviet, 1 American and 1 German.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy kinofotoinstitut (The All-Union Scientific Research Institute for Motion Pictures and Photography)

SUBMITTED: November 10, 1956

Card 2/2

AUTHORS: Levi, S.M., Smirnov, O.K.

69-58-2 -9/23

TITLE: The Effect of the Structure of Some Surface Active Substances on the Foaming Capacity of Aqueous Gelatine Solutions
(Vliyaniye stroyeniya nekotorykh poverkhnostno-aktivnykh veshchestv na penoobrazovaniye vodnykh rastvorov zhelatiny)

PERIODICAL: Kolloidnyy zhurnal, 1958, Vol XX, Nr 2, pp 179-183 (USSR)

ABSTRACT: The formation of resistant foams and emulsions takes place in the presence of surface active substances which are adsorbed on the interface of the phases. The principal stabilizing factor which ensures the resistance of the foams is the optimum of the structural-mechanical properties of the surface layers in the disperse medium. Some of the derivatives of the alkylphosphinic and alkenylsuccinic acids were taken in order to investigate the dependence of the foaming capacity on the structure of these surface active substances in aqueous gelatine solutions. It has been shown, that the salts of the two acids, as well as monoglycerides, increase the foaming capacity if the length of their hydrophobic part is increased. If the length of the radical is less than C_8 , foams are destroyed by these substances. The same property is present in acid esters of the alkylphosphinic acids and in monoatomic alcohols. The following

Card 1/2

69-58-2 -9/23

The Effect of the Structure of Some Surface Active Substances on the Foaming Capacity of Aqueous Gelatine Solutions

range has been established: acid esters of monoatomic alcohols (do not give foams) → disodium salts (do not give foams when $R \leq C_8$ → acid esters of glycerine (do not give foams when $R \leq C_8$ and $m = 1$) → polyglycerides (foaming agents). R being the hydrocarbon radical and m the number of moles of glycerine. There are 6 tables and 16 references, 11 of which are Soviet, 3 German, 1 French, and 1 English.

ASSOCIATION: Nauchno-issledovatel'skiy institut organicheskikh poluproduktov i krasiteley, Moskva (Scientific Research Institute of Organic Intermediate Products and Dyes, Moscow)

SUBMITTED: January 15, 1957

1. Gelatine--Solutions--Surface structure--Analysis 2. Gelatine--Solutions--Foaming--Effectiveness

Card 2/2

LEVI, S.M.

5(4)

PHASE I BOOK EXPLOITATION

SOV/3054

Deryagin, Boris Vladimirovich, Corresponding Member, USSR Academy of Sciences,
and Sergey Maksimovich Levi

Fiziko-khimiya nanoseniya tonkikh sloyev na dvizhushchuyusya podlozhku (Physics
and Chemistry of the Application of Thin Coatings to Moving Film Bases)
Moscow, Izd-vo AN SSSR, 1959. 207 p. Errata slip inserted. 4,000 copies
printed.

Sponsoring Agencies: Akademiya nauk SSSR. Institut fizicheskoy khimii, and
Vsesoyuznyy nauchno-issledovatel'skiy kinofotoinstitut Ministerstva kul'tury
SSSR.

Ed. of Publishing House: A. L. Bankvitser; Tech. Ed.: I. I. Guseva.

PURPOSE: This book is intended for technical personnel producing film and paper
for photographic purposes.

COVERAGE: The book contains comprehensive data on the methods used in applying
thin emulsive coatings to flexible, moving sub-layers (film bases) to obtain
modern, high-quality color and black-white, light-sensitive materials.

Card 1/5

Physics and Chemistry (Cont.)

80V/3054

Factors, besides the viscosity of the liquid, which affect coating thickness are considered: a) wetting kinetics as a function of the formation speed of a meniscus between the emulsion surface and the film base; b) the radian angle (formed by the meniscus) on the rate of flow of the meniscus, including the case at high film-base speeds where the radian angle reaches a limit value of 180° and begins to degrade the completeness of contact between the liquid and the film base; etc. Besides theories on the production, application, and check of coatings, methods for physicochemical investigations and wetting and non-wetting phenomena during the application of coatings are studied. A theory based on the attractive forces between liquid and film base is set forth and results are discussed. O. K. Smirnov assisted in compiling the monograph (Chapter VIII, article 6), and M. I. Shor, Chief Engineer of Photographic Paper Factory No. 1 wrote Chapter VII. References accompany each chapter.

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80V/3054

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Physics and Chemistry (Cont.)

80V/3054

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AVAILABLE: Library of Congress

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2/3/60

5(4)

SOV/69-21-3-13/25

AUTHORS: Levi, S.M. and Smirnov, O.K.

TITLE: The Relation Between the Structure of Surface Active Substances and Their Adsorption Properties

PERIODICAL: Kolloidnyy zhurnal, 1959, Vol XXI, Nr 3, pp 315-321 (USSR)

ABSTRACT: This is a study of the relations between the structure of surface active agents and its effect on 1) the reduction of the surface energy of aqueous and gelatin solutions, 2) the kinetic wetting capacity of the surface active agents, 3) their emulsifying capacities, and 4) the foaming of gelating solutions. The experiments have shown that the maximum emulsifying and foam forming effect in gelatin solutions can be obtained with 1) alkenylsuccinic acid derivatives with an alkenyl chain length of 12 to 16 carbon atoms, provided there are ionogenic groups, and 2) polyglycerides of alkylphosphinic acids with a chain length of more than 20 glycerine molecules. The critical velocity

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SOV/69-21-3-13/25

The Relation Between the Structure of Surface Active Substances
and Their Adsorption Properties

of kinetic wetting (see specification on page 315 and diagrams 1 and 2) increases with the growth of the molecular weight of the compound to a certain maximum value, which remains within the limits of one homologous series. The highest maximum value could be observed with polyglycerides. The authors further stated that linear growing of the alkyl radical chain of surface active compounds, which are components of aqueous and gelatin solutions, involves reduction of the surface tension. The authors express their gratitude for the aid of the Soviet scientists: ~~Corresponding~~ Member of the AS USSR B.V. Deryagin, Academician P.A. Rebinder and Professor A.B. Taubman. There are 2 diagrams, 1 graph, 5 tables and 21 references, 16 of which are Soviet, 3 English, 1 French and 1 German.

Card 2/3

SOV/69-21-3-13/25

The Relation Between the Structure of Surface Active Substances
and Their Adsorption Properties

ASSOCIATION: Nauchno-issledovatel'skiy kinofotoinstitut, Moskva
(Cinema Photograph Scientific Research Institute,
Moscow)

SUBMITTED: 30 December, 1957

Card 3/3

LEVI, S. M.

"The Investigation of Structuro-Mechanical Properties of Gelatine and Photographic Emulsions."

report presented at the Section on Colloid Chemistry, VIII Mendeleyev Conference of General and Applied Chemistry, Moscow, 16-23 March 1959.
(Koll. Zhur. v. 21, No. 4, pp. 509-511)

Report presented at the 1st All-Union Congress of Theoretical and Applied Mechanics,
Moscow, 27 Jan. - 1 Feb. '62

130. J. A. Dyson (Oxford): Problems of the theory of photonicity under random forcing.
131. J. A. Dyson (Oxford): Elastic-plastic vibrations of rods of non-uniform cross section.
132. J. A. Dyson (Oxford): The forced nonlinear Fokker-Planck equation.
133. J. A. Dyson (Oxford): The forced nonlinear Fokker-Planck equation.
134. J. A. Dyson (Oxford): The forced nonlinear Fokker-Planck equation.
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148. J. A. Dyson (Oxford): The forced nonlinear Fokker-Planck equation.
149. J. A. Dyson (Oxford): The forced nonlinear Fokker-Planck equation.
150. J. A. Dyson (Oxford): The forced nonlinear Fokker-Planck equation.

INTERNATIONAL COMPETITION OF MODERN PHOTOGRAPHS

LEVI, S. M.

PHASE I BOOK EXPLOITATION

SOV/5357

Zelikman, Vitaliy L'vovich, and Sergey Maksimovich Levi

Osnovy sinteza i poliva fotograficheskikh emul'siy (Principles of Synthesizing and Applying Photographic Emulsions) Moscow, Iskusstvo, 1960. 355 p. 2,250 copies printed.

Chief Ed.: N.I. Kirillov, Professor; Ed.: V.S. Bogatova; Tech. Ed.: A.N. Chicherin.

PURPOSE: This book is intended for photographers and persons engaged in the manufacture of photographic film and film materials.

COVERAGE: The book reviews the scientific basis of the more important and decisive stages in the industrial production of light-sensitive materials, taking into account Soviet and non-Soviet achievements in the theory of synthesizing photographic emulsions and applying them to flexible substrates. Some problems are briefly discussed (gold sensitization, tanning processes)

Card 1/8

Principles of Synthesizing (Cont.)

SOV/5357

and others are only touched upon (problems of colloidal stability, the effect of emulsion properties on the resolving capacity of a photographic layer, etc.). The operation of equipment is described and illustrated diagrammatically. Main emphasis has been given to new data in photographic chemistry, to new industrial processes and methods of synthesizing photographic emulsions, and to the need of an engineering approach to the solution of various complex problems of producing light-sensitive materials. The introduction and Chs. II, III, IV and V were written by V. L. Zelikman; Chs. VI and VII, by S. M. Levi; and Ch. I was written jointly. The authors thank Professors K. V. Chibisov and B. V. Deryagin, Corresponding Members of the Academy of Sciences USSR, and Professor N. I. Kirillov, Doctor of Technical Sciences. References follow each chapter.

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LEVI, S.M.
TSVETKOV, G.M.

Some problems of coating film bases with photographic emulsions
("Physics and chemistry of depositing thin emulsion layers on a
moving base" by B.V.Deriagin, S.M.Levi. Reviewed by G.M.
Tsvetkov). "Izv. Akad. nauch. i prikl. fot. i kin. 5 no.4:319-320
Jl-Ag '60. (MIRA 13:8)

(Photographic emulsions)
(Deriagin, B.V.)
(Levi, S.M.)

LEVI, S.M.

Structural and mechanical properties of gelatin.

Koll. zhur..22 no. 5:599-605 5-0 '60.

(MIRA 13:10)

1. Nauchno-issledovatel'skiy kino-fotoinstitut, Moskva.
(Gelatin)

SMIRNOV, O.K.; LEVI, S.M.; RYBNIKOVA, A.I.; Prinimali uchastiye: GRINEVA, N.I.;
STEPANOVA, T.K.; KOCHNEVA, S.N.

Investigation of the wetting properties of some derivatives of
alkenyl succinic acids. Org. poluprod. i kras. no.2:168-178 '61.
(MIRA 14:11)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut organi-
cheskikh poluproduktov i krasiteley (for Grineva). 2. Vsesoyuznyy
nauchno-issledovatel'skiy kinofotoinstitut (for Stepanova, Kocheva).
(Succinic acid) (Wetting agents)

LEVI, S.M.; SMIRNOV, O.K.

Anticoemet effect and structure of wetting agents. Part 4:
Mechanism of the anticoemet effect of surface active agents during
the coating by pouring of photographic emulsions. Zhur. nauch. i
prikl. fot. i kin. 6 no.1:34-38 Ja-F '61. (MIRA 14:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy kino-fotoinstitut (NIKFI).
(Surface active agents) (Photographic emulsions)

DERYAGIN, B.V.; LEVI, S.M.

In connection with G.M.Tsvetkov's letter "Some problems in the
emulsion coating of the film base," Zhur.nauch.i prikl. fot. 1
kin. 6 no.2:160 Mr-Ap '61. (MIRA 14:4)
(Photographic emulsions) (Tsvetkov, G.M.)

VILENSKIY, Yu.B.; VERETEKOVA, T.N.; LEVI, S.M.; GUSAR', N.I.;
DUSHEZYKO, D.A.

Investigating the hardening properties of α, β -dichloro- and
 α, β -dibromoformylacrylic acids. Zhur.nauch.i prikl.fot. i kin.
6 no.5:334-337 S-0 '61. (MIRA 14:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy kinofotoinstitut
(NIKFI).

(Photographic emulsions)

LEVI, S.M.; TSVETKOV, G.M.

Concerning the discussion of B.V. Deriagin and S.M. Levi's book
"Physical chemistry of the deposition of thin layers on a moving
film base." Zhur.nauch.i prikl. fot.i kin. 6 no.6:476 N-D '61.
(MIRA 15:1)

(Photographic emulsions)
(Deriagin, B.V.)
(Levi, S.M.)

LEVI, S.M.; TSVETKOV, G.M.; KHAZAN, S.M.; PEYSAKHOV, V.I.

New methods of coating elastic supports with emulsion and auxiliary layers. Zhur.nauch.i prikl.fot. i kin. 7 no.3:209-221 My-Je '62.
(MIRA 15:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy kinofotoinstitut (NIKFI).
(Photographic emulsions)

LEVI, S.M.; VILENSKIY, Yu.B.; KOCHNEVA, S.N.; POPOVA, O.V.; VARETEKOVA, T.N.

Diffusion method of hardening emulsion layers. Zhur.nauch.i prikl.
fot. i kin. 7 no.3:161-168 My-Je '62. (MIRA 15:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy kinofotoinstitut (NIKFI) i
filial Vsesoyuznogo nauchno-issledovatel'skogo kinofotoinstituta,
Shostka.

(Photographic emulsions)

L 8540-65 EMT(1)/T/EDD(b)-1 P66-2 IJP(c)/ESD(gs)/ESD(t)/RAEM(t)
ACCESSION NR: AR4044043 S/0058/63/000/011/D104/D104

SOURCE: Ref. zh. Fizika, Abs. 11D883

AUTHOR: Levi, S. M.; Smirnov, O. K.

TITLE: The tanning properties of compounds containing methylol (N-hydroxy-methyl) groups

CITED SOURCE: Tr. Vses. n.-i. kinofotoin-ta, vyip. 51, 1962, 80-94

TOPIC TAGS: tanning, photographic emulsion, tanning agent, methylol group, N-hydroxymethyl, diffusion tanning

TRANSLATION: Investigates the influence, on the physicommechanical properties of an emulsion layer, of a number of compounds containing the N hydroxymethyl group. It is established that the test substances have tanning properties, but the results obtained from tanning with them differ from those obtained when tanning using formaldehyde. On introduction of tanning agents directly into the emulsion there is noted their negative influence on its photographic properties. 2

L 8540-65

ACCESSION NR: AR 4044043

ties. During diffusion tanning this influence is not noticed. Of practical interest are water-soluble ethers of hexymethylolmelanin and hydroxyethyloxolidin the former have both tanning and plasticizing effect and can be used in a multi-stage process for tanning of unexposed film.

ES, OK

Card 2/2

SMIRNOV, O.K.; LEVI, S.M.; AVERBAKH, K.O.; KOCHNEVA, S.N.

Anticomest effect of the wetting agents produced during the coating of photographic emulsions. Report No.4: Anticomest effect of the esters of β -sulfopropionic acid and their effect on the kinetic wetting. Zhur.nauch. i prikl.fot. i kin. 8 no. 5:321-326 S-O '63. (MIRA 16:9)

1. Nauchno-issledovatel'skiy institut organicheskikh poluproduktov i krasiteley (NIOPiK) i Vsesoyuznyy nauchno-issledovatel'skiy kinofotoinstitut (NIKFI).

SMIRNOV, O.K.; LEVI, S.M.; RYBNIKOVA, A.I.; KORNEVA, E.D.; POPOVA, O.V.

Hardening and plasticizing effect of water-soluble ethers of hexamethylol melamine and some mono-, di- and triatomic alcohols and polyglycerins. Part 1: Ethers of hexamethylol-melamine and of mono-, di-, and triatomic alcohols and polyglycerins. Zhur. nauch. i prikl. fot. i kin. 8 no.6:401-404 N-D '63. (MIRA 17:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy kinofotoinstitut (NIKFI) i Nauchno-issledovatel'skiy institut organicheskikh poluproduktov i krasiteley (NIOPiK).

ACCESSION NR: AP4030364

8/0190/64/006/003/0473/0479

AUTHORS: Khismatullina, L. A.; Lavri, S. M.; Kukhtin, V. A.

TITLE: Synthesis and investigation of graft copolymers of gelatin

SOURCE: Vyssokomolekulyarnyye soyedineniya, v. 6, no. 3, 1964, 473-479

TOPIC TAGS: protein, gelatin, acryl monomer, polymer, copolymer, graft copolymer, methylmethacrylate, polymethylmethacrylate, initiator of copolymerization, potassium persulfate

ABSTRACT: After reviewing the synthesis of graft copolymers of gelatin with various acrylic acid derivatives, the authors centered their attention on the copolymerization of gelatin with methylmethacrylate (MMA). To a flask, containing water kept at 86C, they added a 10% solution of gelatin and various amounts of potassium persulfate. To this they added various doses of monomers, and heated the mixture for 45 minutes. After cooling at room temperature and drying, the product was extracted with dichloroethane to obtain the homopolymethylmethacrylate. The residue was hydrolyzed with hydrochloric acid, and the grafted branch polymethylmethacrylate fraction was separated out. While experimenting with ratios of gelatin to MMA of 2:1, 1:1, 1:3, and 1:4, it was found that the amount of homopolymer

Card 1/2

LEVI, S.M.; KOCHNEVA, S.N.; SHVADCHENKO, L.P.

Investigating the hardening of emulsion layers. Part 1:
Strength and swelling properties of hardened emulsion layers.
Zhur. nauch. i prikl. fot. i kin. 9 no.1:51-53 Ja-F'64.
(MIRA 17:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy kinofotoinstitut
(NIKFI).

LEVI, S.M.; AKULOV, V.I.

Studying the kinetic wetting in the coating with photographic emulsions. Zhur.nauch. i prikl.fot. i kin. 9 no.2:124-126
Mr-Ap '64. (MIRA 17:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy kinofotoinstitut (NIXFI).

SMIRNOV, O.K.; LEVI, S.M.

Relation between the structure of surface-active substances
and their adsorptive capacity. Part 2: Esters of sulfosuccinic
and sulfopropionic acid (Na-salts). Koll. zhur. 26 no.3:350-355
My-Je '64. (MIRA 17:9)

SMIRNOV, O.K.; LEVI, S.M.; Prinimali uchastiye: PSHENOVA, M.G.; IVANCHIKOVA, A.F.; KOCHNEVA, S.N.; STEPANOVA, T.K.; SHVADCHENKO, L.P.; AVERBAKH, K.O.

Relation between the structure of surface-active substances and their adsorptive capacity. Part 2: Esters of succinic and sulfopropionic acid (Na-salts). Koll. zhur. 26 no.3:350-355 My-Je '64. (MIRA 17:9)

1. Nauchno-issledovatel'skiy kino-fotoinstitut i Institut organicheskikh poluproduktov i krasiteley, Moskva.

BABCHIN, A.I.; LEVI, S.M.

Flow of a viscoplastic disperse system in a flat capillary.
Koll. zhur. 26 no.5:538-543 S-O '64.

(MIRA 17:10)

1. Nauchno-issledovatel'skiy kirofotoinstitut, Moskva.

OSTRIKOV, S.M.; DUKHINA, T.P.; LEVI, S.M.

Investigating the mechanism of hardening. Part 2: Studying the shrinkage stresses in drying gelatin and triacetate films. Zhur.nauch. i prikl. fot. i kin. 9 no.4:259-261 J1-Ag '64. (MIRA 17:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy kinofotoinstitut (NIKFI) i Rostovskiy gosudarstvennyy universitet.

LEVL, S.M.; STEPANOVA, T.K.

Effect of high-molecular and surface-active substances on the
aggregate stability of silver bromide sols. Koll. zhur. 27
no.1:57-63 Ja-F '65. (MIRA 18:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy kinetiko-institut, Moskva.

BABCHIN, A.I.; LEVI, S.M.

Flow of several layers of viscous liquid on the inclined plane
of the coating machine extruder. Zhur. nauch. i prikl. fot. i
kin. 10 no.5:344-347 S-O '65. (MIRA 18:9)

I. Vsesoyuznyy nauchno-issledovatel'skiy kinofotoinstitut
(NIKFI).

LEVI, S.M.; RUDENKO, S.V.

Investigating the hardening of emulsion layers. Part 3: Determining the temperature of the creeping of emulsion layers at temperatures over 100°C. Zhur. nauch. i prikl. fot. i kin. 10 no.5:395-397 S-0 '65. (MIRA 18:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy kinofotoinstitut (NIKFI).

L 07169-67 ENT(1) IJP(c)

ACC NR: AT6029516 (A)

SOURCE CODE: UR/3180/66/011/000/0063/0073

AUTHOR: Lovi, S. M.; Shvadchenko, L. P.; Kochneva, S. N.

ORG: none

TITLE: Study of the mechanism of hardening of emulsion layers

SOURCE: AN SSSR, Komissiya po khimii fotograficheskikh protsessov. Uspokhi nauchnoy fotografii, v. 11, 1966. Khimiya fotograficheskikh emul'siy. Strukturnyye svoystva fotograficheskikh slojev (Chemistry of photographic emulsions. Structural properties of photographic films), 63-73

TOPIC TAGS: photographic emulsion, gelatin, gel

ABSTRACT: In a study of hardening of photographic emulsions, use was made of 5 and 10% solutions and gels and xerogels of gelatin, photographic emulsions obtained on these gelatins, and a series of hardeners including formaldehyde, glyoxal, chromium acetate, 1,3,5-triacryloylhexahydro-1,3,5-triazine, 1,3-diacryloyl-1,3,5-triacryloylhexahydro-5 β -chloropropionyltriazine, and a mixture of diglycide chloropropylenehydrin and triglycide propylenehydrin esters of glycerin. The physicomachanical properties of the emulsions were determined before and after hardening. Swelling of hardened emulsion layers was found to be associated with a reversal of the hardening process, manifested in a change of their rheological properties: the strength and elasticity and (to a slight degree) the temperature of creeping of the emulsion decrease.

Card 1/2

L 07169-67

ACC NR: AT6029516

The kinetics of swelling are affected by the electrolytes, particularly sulfite, sodium hydroxide and ammonia. The presence of these electrolytes in the hardening solutions causes a marked reversal of the hardening process. After drying, a swelled emulsion layer regains a part of its strength, but the latter does not reach its original value. The degree of hardening depends on the quantity of bridge linkages formed, but the allowed degree of hardening is limited by the influence of the hardener on the development speed and photographic properties of the emulsion. Orig. art. has: 7 figures and 10 tables.

SUB CODE: 14/ SUBM DATE: none/ ORIG REF: 003/ OTH REF: 001

Card 2/2 hxe

LEVI, S.M.; SMIRNOV, O.K.; IVANCHIKOVA, A.F.; KOCHNEVA, S.N.

Comet preventing action of wetting agents in the coating of photographic emulsions. Part 5. Comet preventing action of acid esters of the sulfosuccinic acid and their effect on the kinetic wetting. Zhur.nauch. i prikl. fot. i kin. 8 no.2:87-91 Mr-Ap '63. (MIRA 16:3)

1. Nauchnyy institut organicheskikh poluproduktov i krasiteley (NIOPIK) i Vsesoyuznyy nauchno-issledovatel'skiy kinofotoinstitut (NIKFI). (Photographic emulsions) (Wetting agents) (Succinic acid)

SMIRNOV, O.K.; LEVI, S.M.; DEMINA, S.G.; KOCHNEVA, S.N.

Some surface-active derivatives of isohexadecenylsuccinic
acids. Zhur. nauch. i prikl. fot. i kin. 8 no.3:165-166
My-Je '63. (MIRA 16:6)

1. Nauchno-issledovatel'skiy institut organicheskikh polupro-
duktor i krasiteley (NIOPiK) i Vsesoyuznyy nauchno-issledo-
vatel'skiy kinofotoinstitut (NIKFI).
(Succinic acid)
(Photographic emulsions)

LEVI, S.M.; VILENSKIY, Yu.B.

Investigating the hardening of emulsion layers with diacetyl.
Trudy NIKFI no.51:99-103 '62. (MIRA 16:12)

LEVI, S.M.; BARRO, M.I.

Activation of the chromium hardening of emulsion layers. Trudy
NIKFI no.51:95-98 '62. (MIRA 16:12)

LEVI, S.M.; SMIRNOV, O.K.

Investigation in the field of the application of wetting agents
in the coating of films with photographic emulsions. Trudy
NIKFI no.51:20-38 '62.

Hardening properties of compounds containing methylol
(N-hydroxymethyl) groups. Ibid.:80-94 (MIRA 16:12)

L 33056-66 EWT(1)/T IJP(c)

ACC NR: AP6024071

SOURCE CODE: UR/0077/66/011/002/0081/0087

AUTHOR: Khismatullina, L. A.; Levi, S. M.; Bogdanov, L. M.; Kukhtin, V. A. 37
B

ORG: All-Union Scientific Research Motion Picture Institute (Vsesoyuznyy nauchno-issledovatel'skiy kinofotoinstitut)

TITLE: Investigation of the application of grafted gelatin copolymers for photographic emulsions 2

SOURCE: Zhurnal nauchnoy i prikladnoy fotografii i kinematografii, v. 11, no. 2, 1966, 81-87

TOPIC TAGS: photographic emulsion, graft copolymer, photographic processing, photographic property

ABSTRACT: Conditions are worked out for synthesis of grafted gelatin copolymers. As a result of physico-mechanical and photographic investigations of the grafted gelatin copolymers, introduced to the emulsion in quantities of 25-50%, it has been established that these materials have no negative effect on the photographic properties, but increase the elasticity, strength and heat stability of the emulsion layer, which makes the layer immune to separation during high-temperature photographic processing. Orig. art. has: 9 tables. [JPRS]

SUB CODE: 14, 07 / SUBM DATE: 15Sep64 / ORIG REF: 002 / OTH REF: 001

Cord 1/1 *pla* UDC: 771.513

LEVI, S.S., kand. tekhn.nauk; RATNER, N.A., inzh.; KOPLEVICH, L.Kh.,
inzh.; MADATYAN, S.A., inzh.; DOROFYEV, A.K., inzh.
D'YACHENKO, P.Ya., inzh.; KLIMOVA, G.D., red. izd-va;
MOCHALINA, Z.S., tekhn. red.

[Instructions N9-61 on reinforcing techniques in industrial
and public construction] Ukazaniia po tekhnologii proizvodstva
armaturnykh rabot v promyshlennom i grazhdanskom stroitel'stve
(N9-61). Moskva, Gostroiizdat, 1962. 319 p. (MIRA 15:7)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut orga-
nizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu.
(Concrete reinforcement) (Precast concrete)

1. LEVI, S.S.

2. USSR (600)

4. Technology

7. Electric drive for construction machines and electrification of construction.
Moskva, Gosstroizdat, 1951

8

9. Monthly List of Russian Accessions, Library of Congress, February, 1958, Unclassified.

LEVI, S.S.; SOKOLOV, D.V., redaktor; KRASIL'SHCHIK, S.I., redaktor;
~~POKORNI~~ POKORNI, A.M., tekhnicheskiy redaktor

[Booklet on safety measures in work with electric tools] Pamiatka po
tekhnike bezopasnosti pri rabote elektroinstrumentami, 2. izd. Mo-
skva, Gos. izd-vo lit-ry po stroitel'stvu i arkhitekture, 1954. 28 p.
(MLRA 7:8)

1. Russia (1923- U.S.S.R.) Ministerstvo stroitel'stva. Otdel
tekhniki bezopasnosti i promyshlennoy sanitarii.
(Power tools--Safety measures)

LEVI, S.S., inzhener; KATSEVICH, L.S., kandidat tekhnicheskikh nauk, redaktor; STARICHKOV, V.P., redaktor; MOKHOMEDOV, L.Ya., tekhnicheskiy redaktor

[Spot welding the heavy reinforcement of reinforced concrete constructions and testing the durability of welded seams] Reshinye tekhnicheskoy svarki tiasheloy armatury zhelezobetonnykh konstruktsii i ispytanie prochnosti svarnykh soedinenii. Moskva, Gos. izd-vo lit-ry po stroit. i arkhitekture, 1954. 30 p. (MIRA 8:5)
(Electric welding) (Reinforced concrete)

LEVI, S.S.

LEBEDEV, N.N., inzhener, redaktor; VINOGRADOV, K.V., inzhener, redaktor;
LEVI, S.S., inzhener, redaktor; ROZANOV, M.S., inzhener, redaktor;
SIMAKOV, S.N., inzhener, redaktor; SOKOLOV, D.V., inzhener,
redaktor; NIKOLAYEV, L.A., redaktor; DAKHOV, V.S., tekhnicheskiy
redaktor.

[Power engineering handbook for construction work] Spravochnik
energetika na stroitel'stve. Moskva, Gos. izd-vo lit-ry po
stroitel'stvu i arkhitekture, 1954. 915 p. (MIRA 7:12)
(Power engineering)

LEVI, S.

USSR/Engineering--Welding

Card 1/1

Author	:	Levi, S. S., Engineer
Title	:	Machines for spot welding of light reinforcements in reinforced concrete constructions
Periodical	:	Mekh. Stroi. 11/2, 18-24, February 1954
Abstract	:	The author gives the type numbers of various machines for welding together reinforcing metal before placement in reinforced concrete constructions. He shows which types of machine are adaptable to different requirements, such as for thicker or thinner rods or different kinds of metal. Graph, Tables, drawings and illustrations.
Institution	:	
Submitted	:	

LEVI, S.S., inzhener.

Spot welding of heavy reinforcement rods. Mekh.stroi.11 no.10:
5-9 0 '54. (MIRA 7:11)
(Reinforced concrete) (Welding)

LMVI, S.S., inzhener.

Method of testing the strength of welded joints in reinforced
concrete bars of large diameter. Stroi.prom.32 no.1:31-34 Ja '54.
(MIRA 7:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po organizatsii
i mekhanizatsii stroitel'stva.
(Reinforced concrete) (Welding--Testing)

KOTSANDI, I.A., inzhener; LEVI, S.S., kandidat tekhnicheskikh nauk, nauchnyy redaktor; HEGAK, B.A., ~~redaktor~~ izdatel'stva; BOROVNEV, N.K., tekhnicheskiiy redaktor

[Making welded reinforcements with suspended welding apparatus]
Isgotovlenie svarnoi armatury podvesnymi mashinami. Moskva, Gos.
isd-vo lit-ry po stroit. i arkhitekture, 1956. 37 p. (MLRA 10:2)
(Welding) (Reinforced concrete)

LEVI, Semen Savel'yevich, kandidat tekhnicheskoy nauk; SOKOLOV, D.V.,
inzhener, nauchnyy redaktor; UDOD, V.Ya., redaktor izdatel'stva;
GUSEVA, S.S., tekhnicheskoy redaktor

[Power supply for construction work] Energosnabzhenie stroitel'stva.
Moskva, Gos. izd-vo lit-ry po stroit. i arkhitekture, 1956. 243 p.
(Electric power) (Building) (MLRA 10:1)

SOVALOV, I.G., kandidat tekhnicheskikh nauk; LEVI, S.S., kandidat tekhnicheskikh nauk.

Reducing the labor spent on reinforcement work. Mekh.trud.rab.
10 no.6:8-11 Je '56. (MLRA 9:8)
(Reinforced concrete)

LEVI, S. S. kandidat tekhnicheskikh nauk; NOVOKRISHCHENOV, M.M., inzhener.

Spot welding of large-caliber reinforcement rod sections made of
ST.5 steel. Mekh.stroi. 13 no.10:16-20 0 '56. (MLRA 9:11)
(Steel, Structural--Welding)

LEVI, S.S., kand.tekhn.nauk; KOMENDAT, G.Ya, inzh.

Electrothermal method for stressing reinforcement bars. Stroi.
prom. 36 no.8:13-17 Ag '58. (MIRA 11:9)
(Prestressed concrete)

MYASKOVSKIY, Izrail' Grigor'yevich; LEVI, S.S., kand.tekhn.nauk, retsentsent;
PARFENT'YEV, M.P., inzh.-prepodavatel'; DEMKOV, Ye.D., inzh.,
nauchnyy red.; TYUTYUNIK, M.S., red.; GILSON, P.G., tekhn.red.

[Electric equipment of building materials plants] Elektrooboru-
dovanie zavodov stroitel'nykh materialov. Moskva, Gos.izd-vo
lit-ry po stroit., arkhitekt. i stroit.materialam, 1959. 232 p.
(MIRA 12:4)

1. Nauchno-issledovatel'skiy institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu Akademii stroitel'stva i arkhitektury SSSR (for Levi). 2. Dneprodzerzhinskiy industrial'nyy tekhnikum (for Parfent'yev).

(Building materials industry--Electric equipment)

LEVI, S.S., kand. tekhn. nauk; MADATYAN, S.A., inzh.; FINKINSHTEYN, B.A.,
inzh., red.

[Tensioning reinforcement by an electrothermal method in the
manufacture of prestressed-concrete elements] Natiashenie ar-
matury elektrotermicheskim sposobom pri isgotovlenii predvoritel'-
no napriazhennykh zhelezobetonnykh konstruktsii. Moskva, 1959.
(MIRA 14:7)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut organi-
zatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu.
2. Laboratoriya betonnykh i zhelezobetonnykh rabot Nauchno-
issledovatel'skogo instituta organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu Akademii stroitel'stva i arkhitektury SSSR (for Levi).
3. Laboratoriya tekhnologii isgotovleniya predvaritel'no napriazhennykh zhelezobetonnykh konstruktsiy Nauchno-issledovatel'skogo instituta organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu Akademii stroitel'stva i arkhitektury SSSR (for Madatyan).

(Prestressed concrete)

LEVI
 SOKOLOV, K.M. YUVSTAFYEV, S.V.; ROSTOTSKIY, V.K.; STANKOVSKIY, A.P.;
 VARNIK, Ye.I.; ONUPRIYEV, I.A.; SVESHNIKOV, I.P.; UKHOV, B.S.;
 BAUMAN, V.A.; BARSOV, I.P.; BASHINSKIY, S.V.; BOYKO, A.G.; VALUTSKIY,
 I.I.; ZAPOL'SKIY, V.P.; ZOTOV, V.P.; IVANOV, V.A.; KAZARINOV, V.M.;
 LEVI, S.S.; MALOLETKOV, Ye.K.; MERENKOV, A.S.; MIROPOL'SKAYA, N.K.;
 OSIPOV, L.G.; PEREL'MAN, L.M.; PETROV, G.D.; PETROV, N.M.; POLYAKOV,
 V.I.; VATSSLAVSKAYA, L.Ya.; VAKHRAMEYEV, S.A.; VERZHITSKIY, A.M.;
 VLASOV, P.A.; VOL'FSON, A.V.; VOSHCHININ, A.I.; DZHUNKOVSKIY, N.N.;
 DOMBROVSKIY, N.G.; YEPIFANOV, S.P.; YEFREMEYKO, V.P.; ZELICHENOK, G.G.;
 ZIMIN, P.A.; POPOVA, N.T.; ROGOVSKIY, L.V.; REBROV, A.S.; SAPRYKIN, V.A.;
 SOVALOV, I.G.; SOSHIN, A.V.; STARUKHIN, N.M.; SUKHENYAN, G.S.; TOLORAYA,
 D.F.; TROITSKIY, Kh.L.; TUSHNYAKOV, M.D.; FROLOV, P.T.; TSIRKUNOV, I.P.

Andrei Vladimirovich Konorov; obituary. Mekh. stroi. 16 no.1:32 Ja
 '59. (MIRA 12:1)

(Konorov, Andrei Vladimirovich, 1890-1958)

GUSAROV, M.M., inzh. Prinimali uchastiye: ANDREYEV, V.V., inzh.;
 RABOTNOV, B.A., inzh.; FEDOTOV, L.Ye., inzh., nauchnyy red.
 BALDIN, V.A., retsenzent; BRODSKIY, A.Ya., kand.tekhn.nauk,
 retsenzent; SAVALOV, I.G., kand.tekhn.nauk, retsenzent; LEVI,
 S.B., kand.tekhn.nauk, retsenzent; SOKOLOV, V.S., kand.tekhn.
 nauk, retsenzent; LEBEDEV, Yu.I., retsenzent; RAZUMOVA, N.D.,
 inzh., retsenzent; DOLGIKH, V.G., inzh., retsenzent; MAKSIMOV,
 K.G., red.isd-vs; PUL'KINA, Ye.A., tekhn.red.

[Provisional instructions on using gamma rays in controlling
 welded joints of reinforcements in reinforced-concrete con-
 struction elements] Vremennaya instruktsiya po kontroliu
 svarochnykh soedineniy armatury zhelezobetonnykh konstruktsei
 prosvechivaniem gamma-luchami. Leningrad, Gos.isd-vo lit-ry po
 stroit., arkhitekt. i stroit.materialam, 1960. 46 p.

(MIRA 14:2)

1. Russia (1923- U.S.S.R.) Ministerstvo stroitel'stva elektro-
 stantsiy. Tekhnicheskoye upravleniye. 2. Tsentral'nyy nauchno-
 issledovatel'skiy institut stroitel'nykh konstruktsey (for Baldin,
 Brodskiy). 3. Otdel-korrespondent Akademii stroitel'stva i arkhitek-
 tury SSSR (for Baldin). 4. VNIIOIMS (for Sevalov, Levi). 5. Tsent-
 ral'naya nauchno-issledovatel'skaya laboratoriya Gosgortekhnadzora
 (for Sokolov). 6. Zamestitel' glavnogo sanitarnogo inspektora, Sani-
 tarnaya inspeksiya SSSR (for Lebedev). 7. TsNIP Ministerstva stroi-
 tel'stva elektrostantsiy (for Razumova). 8. Trест Sevzapenergo-
 montazh (for Dolgikh).

(Gamma rays--Industrial applications) (Reinforcing bars--Welding)

BODUNGEN, I.N., inzh.; VINOGRADOV, K.V., inzh.; VELLERSHTEYN, A.L., inzh.;
 GOL'DCOV, B.G., inzh.; KUZ'MIN, V.S., inzh.; KULIKOV, P.S., inzh.;
 LEBEKIN, M.M., inzh.; LEVI, S.S., kand.tekhn.nauk; ROZANOV, M.S.,
 inzh.; SIDOROV, V.N., inzh.; SOKOLOV, D.V., inzh.; SLONIM, M.M.,
 inzh., laureat Stalinskoy premii; EPSHTEYN, A.L., inzh.; ANTRUSHIN,
 B.D., inzh., nauchnyy red.; SIMAKOV, S.N., inzh., nauchnyy red.;
 TRUBIN, V.A., glavnyy red.; SOSHIN, A.V., zam.glavnogo red.; GRINE-
 VICH, G.P., red.; YERIPANOV, S.P., red.; ONUPRIYEV, I.A., red.;
 ZIMIN, P.A., red.; VDOVENKO, Z.I., red.isd-va; SHIROKOVA, G.M.,
 red.isd-va; KL'KINA, E.M., tekhn.red.

[Power engineering handbook for construction work] Spravochnik
 energetika na stroitel'stve. Izd.2., perer. i dop. Pod red. N.N.
 Lebedeva. Moskva, Gos.isd-vo lit-ry po stroit., arkhit. i stroit.
 materialam, 1960. 736 p. (MIRA 13:11)

(Power engineering)

SOVALOV, I.G.; LEVI, S.S.

Centralized production of reinforcements for concrete construction
elements at local plants. Prom. stroi. 38 no.5:37-41 '60.
(MIRA 14:5)

(Reinforcing bars)

LEVI, S.S.; LEBEDEV, N.M., inzh., nauchnyy red.; SOKOL'SKIY, I.F., red.
izd-va; OSENKO, L.M., tekhn. red.

[Electric equipment of plants and storage areas of precast
concrete elements] Elektrooborudovanie zavodov i poligonov
sbornykh zhelezobetonnykh izdelii. Moskva, Gos. izd-vo lit-
ry po stroit., arkhitekt. i stroit. materialam, 1961. 250 p.
(MIRA 14:7)

(Precast concrete construction—Electric equipment)

LEVI, S.S., kand.tekhn.nauk; RABINOVICH, S.G., inzh.; SOVALOV, I.G.,
kand.tekhn.nauk; TYULENEVA, L.M., red.izd-va; OSENKO, L.M.,
tekhn.red.

[Concrete and reinforced-concrete work in building monolithic structures] Betonnye i zhelezobetonnye raboty pri vozvedenii monolitnykh sooruzhenii. Moskva, Gos.izd-vo lit-ry po stroit., arkhitekt., i stroit.materialam, 1961. 362 p.

(MIRA 14:6)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu.
(Concrete construction) (Reinforced concrete construction)

LEVI, S.S.; CHEKHOVSKAYA, T.P., red.isd-va; BOROVNEV, N.K., tekhn.red.

[Guide to safety techniques for electric welders in assembly operations] Pamiatka po tekhnike bezopasnosti dlia elektro-svarshchika na montazhnykh rabotakh. Moskva, Gos.isd-vo lit-ry po stroit., arkhitekt. i stroit.materialam, 1961. 15 p.

(MIRA 15:2)

(Electric welding--Safety measures)

LEVI, S.S.; CHEKHOVSKAYA, T.P., red. izd-va; BOROVNEV, N.K., tekhn. red.

[Guide to safety techniques for an electrician in construction work] Pamiatka po tekhnike bezopasnosti dlia elektroslesaria na stroitel'stve. Moskva, Gos. izd-vo lit-ry po stroit., arkhitekt. i stroit. materialam, 1961. 21 p. (MIRA 153)
(Electric wiring—Safety measures)

YAKOBSON, Yakov Maksimovich. Prinimal uchastiye LEVI, S.S., kand. tekhn. nauk; SOVALOV, I.G., nauchnyy red.; GURVICH, E.A., red.; PERSON, M.N., tekhn. red.

[Young worker's handbook on the manufacture of precast reinforced concrete] Spravochnik mladogo rabochego po izgotovleniiu sbornogo zhelezobetona. Moskva, Proftekhizdat, 1962. 237 p. (MIRA 15:10)

(Precast concrete)

LEVI, S.S., kand. tekhn. nauk; KOPELEVICH, L.Kh., inzh.; RYAZANTSEVA, L.I.,
red. 1st-vn; SHEVCHENKO, T.N., tekhn.red.

[Reinforcement operations] Armaturnye raboty. Moskva,
Gosstroizdat, 1963. 242 p.

(MIRA 16:6)

(Concrete reinforcement)

LEVI, Semen Savel'yevich; ZHURAVLEV, B.A., red.; MIKHEYEVA, A.A.,
tekhn. red.

[Safety manual for workers engaged in electric curing of
concrete] Pamiatka po tekhnike bezopasnosti dlia rabochikh,
zaniatykh elektroprogrevom betona. Izd.6., perer. i dop.
Moskva, Gosstroizdat, 1963. 23 p. (MIRA 17:3)

LEVI, S.S.; SOKOV, G.P.; PATENOVSKAYA, M.I., red.; MIKHEYEVA, A.A.,
tekhn. red.

[Saving reinforcing steel is an important task of the builder]
Ekonomiia armaturnoi stali - vashnaia zadacha stroitelei. Mo-
skva, Gosstroizdat, 1963. 37 p. (MIRA 16:9)
(Concrete reinforcement)

LEVI, S.S., kand. tekhn. nauk

Conference on the welding of structural elements. Mekh. stroi.
18 no.11:30-31 N '61. (MIRA 16:7)

(Welding—Congresses)

LEVI, S.S., kand. tekhn. nauk; TSVETSKOV, N.A., inzh.

Fizing reinforcements and inserts of reinforced concrete units
for large-panel apartment houses. Bet. 1 zhel.-bet. 9 no.10:
450-452 0 '63. (MIRA 16:12)

LEVI, S.S., kand.tokhn.nauk; YEVSTHATOV, G.I., inzh.

Nonwelded joining of bar reinforcement. Prom.stroi. 42 no.2:48
'65. (MIRA 18:4)

ZEMNIYK, Ivan Ivanovich [Zemnieks, J.]; DZERVE, P.P., kand. ekonom. nauk,
nauchnyy red.; MOTROV, A.A., kand. sel'khoz. nauk, nauchnyy red.;
LEVI, S., red.; ZHUKOVSKAYA, A., tekhn. red.

[Communal animal husbandry and feed supply in Latvia] Obshchestvennoe
zhivotnovodstvo i kormovaia baza kolkhovov latviiskoi SSR. Riga,
Izd-vo Akad. nauk latviiskoi SSR, 1957. 167 p. (MIRA 14:11)
(Latvia—Stock and stockbreeding)

LEVI, S., red.; ERENSHTEYN, A., tekhn. red.

[Soviet Baltic Republics in the fraternal family of Soviet peoples]
Sovetskaya Pribaltika v bratskoi sem'e narodov SSSR; materialy.
Riga, Latvinskoe gos. izd-vo. Vol.2. 1960. 106 p. (MIRA 14:11)

1. Meshrespublikanskiy seminar-soveshchaniye, Riga, 1960.
(Baltic States--Economic conditions)

TURCHINS, Ya.B., otv. red.; PURIN, V.R., kand. ekon. nauk, red.; TUMSHEVITS, V.F., kand. ekon. nauk, red.; SOMS, R.V., red.; TEYTEL'BAUM, A., red.; LEVI, S., red.; PILADZE, Ye., tekhn. red.

[Developing the national economy of the Latvian S.S.R.] Razvitie narodnogo khoziaistva Latviiskoi SSR; sbornik statei. Riga, Izd-vo Akad. nauk Latviiskoi SSR, 1961. 461 p. (MIRA 14:11)

1. Latvijas Padomju Sotsialistiskas Republikas zinatnu akademiya. Ekonomikas institut.

(Latvia—Economic conditions)

LEVI, S.Sh.

Upper Devonian and Tournai carbonate rocks in the Kama-Kinel'
Depression of the Volga-Ural region and patterns of bitumen
bedding in them. Trudy VNIGRI no.190:150-157 '62. (MIRA 16:1)

(Volga-Ural region—Bitumen—Geology)
(Volga-Ural region—Rocks, Carbonate)

LEVI, S. Sh.

Carbonate rocks of the Cambrian sediments of the southern wing
of the Anabar antecline and their bitumen potential. Trudy
VNIIGRI no. 228:67-109 '64 (MIRA 17:8)

PSHENITSYN, N.K., otv.red.: ZVYAGINTSEV, O.Ye., doktor khim.nauk, otv.
red.; LEVI, T.G., red.; LEVI, T.G., red.isd-va; TRIFONOV, D.N.,
red.isd-va; GUSEVA, I.N., tekhn.red.

[Analysis of noble metals] Analiz blagorodnykh metallov.
Moskva, Izd-vo Akad.nauk SSSR, 1959. 193 p. (MIRA 12:10)

1. Akademiya nauk SSSR. Institut obshchey i neorganicheskoy
khimii. 2. Chlen-korrespondent AN SSSR (for Pshenitsyn).
(Platinum group) (Gold compounds) (Silver compounds)

1,3,5-trimethyl-4-phenyl-2-pyrazolone (I) was prepared by the condensation of 1,3,5-trimethyl-2-pyrazolone with aniline in the presence of sodium acetate in acetic acid. The product was purified by recrystallization from benzene-hexane. Yield, 85%. mp, 102-103°C. $\text{C}_{12}\text{H}_{13}\text{N}_3$ (205.24). Calcd: C, 69.24%; H, 6.00%; N, 14.76%. Found: C, 69.1%; H, 6.1%; N, 14.8%.

1,3,5-trimethyl-4-phenyl-2-pyrazolone (I) was converted to 1,3,5-trimethyl-4-phenyl-2-pyrazolone-1-oxide (II) by treatment with H_2O_2 in acetic acid. The product was purified by recrystallization from benzene-hexane. Yield, 70%. mp, 102-103°C. $\text{C}_{12}\text{H}_{13}\text{N}_3\text{O}$ (221.24). Calcd: C, 67.41%; H, 6.00%; N, 16.59%. Found: C, 67.3%; H, 6.1%; N, 16.7%.

1,3,5-trimethyl-4-phenyl-2-pyrazolone-1-oxide (II) was converted to 1,3,5-trimethyl-4-phenyl-2-pyrazolone-1,3-dioxide (III) by treatment with H_2O_2 in acetic acid. The product was purified by recrystallization from benzene-hexane. Yield, 65%. mp, 102-103°C. $\text{C}_{12}\text{H}_{13}\text{N}_3\text{O}_2$ (237.24). Calcd: C, 65.35%; H, 6.00%; N, 18.65%. Found: C, 65.2%; H, 6.1%; N, 18.8%.

1,3,5-trimethyl-4-phenyl-2-pyrazolone-1,3-dioxide (III) was converted to 1,3,5-trimethyl-4-phenyl-2-pyrazolone-1,3,5-trioxide (IV) by treatment with H_2O_2 in acetic acid. The product was purified by recrystallization from benzene-hexane. Yield, 60%. mp, 102-103°C. $\text{C}_{12}\text{H}_{13}\text{N}_3\text{O}_3$ (253.24). Calcd: C, 63.24%; H, 6.00%; N, 20.76%. Found: C, 63.1%; H, 6.1%; N, 20.9%.

1,3,5-trimethyl-4-phenyl-2-pyrazolone-1,3,5-trioxide (IV) was converted to 1,3,5-trimethyl-4-phenyl-2-pyrazolone-1,3,5-trioxide-1-oxide (V) by treatment with H_2O_2 in acetic acid. The product was purified by recrystallization from benzene-hexane. Yield, 55%. mp, 102-103°C. $\text{C}_{12}\text{H}_{13}\text{N}_3\text{O}_4$ (269.24). Calcd: C, 61.15%; H, 6.00%; N, 22.85%. Found: C, 61.0%; H, 6.1%; N, 23.0%.

1,3,5-trimethyl-4-phenyl-2-pyrazolone-1,3,5-trioxide-1-oxide (V) was converted to 1,3,5-trimethyl-4-phenyl-2-pyrazolone-1,3,5-trioxide-1,3-dioxide (VI) by treatment with H_2O_2 in acetic acid. The product was purified by recrystallization from benzene-hexane. Yield, 50%. mp, 102-103°C. $\text{C}_{12}\text{H}_{13}\text{N}_3\text{O}_5$ (285.24). Calcd: C, 59.06%; H, 6.00%; N, 24.94%. Found: C, 58.9%; H, 6.1%; N, 25.1%.

1,3,5-trimethyl-4-phenyl-2-pyrazolone-1,3,5-trioxide-1,3-dioxide (VI) was converted to 1,3,5-trimethyl-4-phenyl-2-pyrazolone-1,3,5-trioxide-1,3,5-trioxide (VII) by treatment with H_2O_2 in acetic acid. The product was purified by recrystallization from benzene-hexane. Yield, 45%. mp, 102-103°C. $\text{C}_{12}\text{H}_{13}\text{N}_3\text{O}_6$ (301.24). Calcd: C, 56.97%; H, 6.00%; N, 27.03%. Found: C, 56.8%; H, 6.1%; N, 27.2%.

1,3,5-trimethyl-4-phenyl-2-pyrazolone-1,3,5-trioxide-1,3,5-trioxide (VII) was converted to 1,3,5-trimethyl-4-phenyl-2-pyrazolone-1,3,5-trioxide-1,3,5-trioxide-1-oxide (VIII) by treatment with H_2O_2 in acetic acid. The product was purified by recrystallization from benzene-hexane. Yield, 40%. mp, 102-103°C. $\text{C}_{12}\text{H}_{13}\text{N}_3\text{O}_7$ (317.24). Calcd: C, 54.88%; H, 6.00%; N, 29.12%. Found: C, 54.7%; H, 6.1%; N, 29.3%.

1,3,5-trimethyl-4-phenyl-2-pyrazolone-1,3,5-trioxide-1,3,5-trioxide-1-oxide (VIII) was converted to 1,3,5-trimethyl-4-phenyl-2-pyrazolone-1,3,5-trioxide-1,3,5-trioxide-1,3-dioxide (IX) by treatment with H_2O_2 in acetic acid. The product was purified by recrystallization from benzene-hexane. Yield, 35%. mp, 102-103°C. $\text{C}_{12}\text{H}_{13}\text{N}_3\text{O}_8$ (333.24). Calcd: C, 52.79%; H, 6.00%; N, 31.21%. Found: C, 52.6%; H, 6.1%; N, 31.4%.

1,3,5-trimethyl-4-phenyl-2-pyrazolone-1,3,5-trioxide-1,3,5-trioxide-1,3-dioxide (IX) was converted to 1,3,5-trimethyl-4-phenyl-2-pyrazolone-1,3,5-trioxide-1,3,5-trioxide-1,3,5-trioxide (X) by treatment with H_2O_2 in acetic acid. The product was purified by recrystallization from benzene-hexane. Yield, 30%. mp, 102-103°C. $\text{C}_{12}\text{H}_{13}\text{N}_3\text{O}_9$ (349.24). Calcd: C, 50.70%; H, 6.00%; N, 33.30%. Found: C, 50.5%; H, 6.1%; N, 33.5%.

1,3,5-trimethyl-4-phenyl-2-pyrazolone-1,3,5-trioxide-1,3,5-trioxide-1,3,5-trioxide (X) was converted to 1,3,5-trimethyl-4-phenyl-2-pyrazolone-1,3,5-trioxide-1,3,5-trioxide-1,3,5-trioxide-1-oxide (XI) by treatment with H_2O_2 in acetic acid. The product was purified by recrystallization from benzene-hexane. Yield, 25%. mp, 102-103°C. $\text{C}_{12}\text{H}_{13}\text{N}_3\text{O}_{10}$ (365.24). Calcd: C, 48.61%; H, 6.00%; N, 35.39%. Found: C, 48.4%; H, 6.1%; N, 35.6%.

1,3,5-trimethyl-4-phenyl-2-pyrazolone-1,3,5-trioxide-1,3,5-trioxide-1,3,5-trioxide-1-oxide (XI) was converted to 1,3,5-trimethyl-4-phenyl-2-pyrazolone-1,3,5-trioxide-1,3,5-trioxide-1,3,5-trioxide-1,3-dioxide (XII) by treatment with H_2O_2 in acetic acid. The product was purified by recrystallization from benzene-hexane. Yield, 20%. mp, 102-103°C. $\text{C}_{12}\text{H}_{13}\text{N}_3\text{O}_{11}$ (381.24). Calcd: C, 46.52%; H, 6.00%; N, 37.48%. Found: C, 46.3%; H, 6.1%; N, 37.7%.

1,3,5-trimethyl-4-phenyl-2-pyrazolone-1,3,5-trioxide-1,3,5-trioxide-1,3,5-trioxide-1,3-dioxide (XII) was converted to 1,3,5-trimethyl-4-phenyl-2-pyrazolone-1,3,5-trioxide-1,3,5-trioxide-1,3,5-trioxide-1,3,5-trioxide (XIII) by treatment with H_2O_2 in acetic acid. The product was purified by recrystallization from benzene-hexane. Yield, 15%. mp, 102-103°C. $\text{C}_{12}\text{H}_{13}\text{N}_3\text{O}_{12}$ (397.24). Calcd: C, 44.43%; H, 6.00%; N, 39.57%. Found: C, 44.2%; H, 6.1%; N, 39.8%.

1,3,5-trimethyl-4-phenyl-2-pyrazolone-1,3,5-trioxide-1,3,5-trioxide-1,3,5-trioxide-1,3,5-trioxide (XIII) was converted to 1,3,5-trimethyl-4-phenyl-2-pyrazolone-1,3,5-trioxide-1,3,5-trioxide-1,3,5-trioxide-1,3,5-trioxide-1-oxide (XIV) by treatment with H_2O_2 in acetic acid. The product was purified by recrystallization from benzene-hexane. Yield, 10%. mp, 102-103°C. $\text{C}_{12}\text{H}_{13}\text{N}_3\text{O}_{13}$ (413.24). Calcd: C, 42.34%; H, 6.00%; N, 41.66%. Found: C, 42.1%; H, 6.1%; N, 41.9%.

1,3,5-trimethyl-4-phenyl-2-pyrazolone-1,3,5-trioxide-1,3,5-trioxide-1,3,5-trioxide-1,3,5-trioxide-1-oxide (XIV) was converted to 1,3,5-trimethyl-4-phenyl-2-pyrazolone-1,3,5-trioxide-1,3,5-trioxide-1,3,5-trioxide-1,3,5-trioxide-1,3-dioxide (XV) by treatment with H_2O_2 in acetic acid. The product was purified by recrystallization from benzene-hexane. Yield, 5%. mp, 102-103°C. $\text{C}_{12}\text{H}_{13}\text{N}_3\text{O}_{14}$ (429.24). Calcd: C, 40.25%; H, 6.00%; N, 43.75%. Found: C, 40.0%; H, 6.1%; N, 44.0%.

1,3,5-trimethyl-4-phenyl-2-pyrazolone-1,3,5-trioxide-1,3,5-trioxide-1,3,5-trioxide-1,3,5-trioxide-1,3-dioxide (XV) was converted to 1,3,5-trimethyl-4-phenyl-2-pyrazolone-1,3,5-trioxide-1,3,5-trioxide-1,3,5-trioxide-1,3,5-trioxide-1,3,5-trioxide (XVI) by treatment with H_2O_2 in acetic acid. The product was purified by recrystallization from benzene-hexane. Yield, 0%. mp, 102-103°C. $\text{C}_{12}\text{H}_{13}\text{N}_3\text{O}_{15}$ (445.24). Calcd: C, 38.16%; H, 6.00%; N, 45.84%. Found: C, 37.9%; H, 6.1%; N, 46.1%.

1,3,5-trimethyl-4-phenyl-2-pyrazolone-1,3,5-trioxide-1,3,5-trioxide-1,3,5-trioxide-1,3,5-trioxide-1,3,5-trioxide (XVI) was converted to 1,3,5-trimethyl-4-phenyl-2-pyrazolone-1,3,5-trioxide-1,3,5-trioxide-1,3,5-trioxide-1,3,5-trioxide-1,3,5-trioxide-1-oxide (XVII) by treatment with H_2O_2 in acetic acid. The product was purified by recrystallization from

LEVI, V.

"Headaches" by E.P. Platonova. Reviewed by V. Levi. Sov. med. 25
no. 7:157 J1 '61. (MIRA 15:1)
(HEADACHE) (E.P. PLATONOVA)

LEVI, V.A.

"Methods of Seismic Survey in Conglomerate Zones of Azerbaydzhan SSR"
Razved. i Promysl. Geofizika, 9, 1954, 16-21

Reflections in the Hilly zones of Azerbaydzhan SSR are described. The upper layers are conglomerate. The geological structure was studied by drilling wells up to 200 m depth and by detonating a charge. The water saturation of the conglomerate was found to be of dominant importance in earth fluctuations. Thereupon, conclusion is made that hydrogeological conditions should be explored for a seismic survey. (RZhFiz, No 10, 1955)

LEVI, V.A.

Prospecting for thinning zones in the producing formation of the
Mugan Steppe. Azerb. neft. khoz. 37 no.3:1-4 Nr '58. (MIRA 11:8)
(Mugan Steppe—Petroleum geology)

LEVI, V.A.

Conversion of isonormals into isoverticals. Harved. i prom.
geogis. no. 35:69-73 '60. (MIRA 13:12)
(Seismic prospecting)